501
COMPACT DISC
PLAYER

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PLAYER

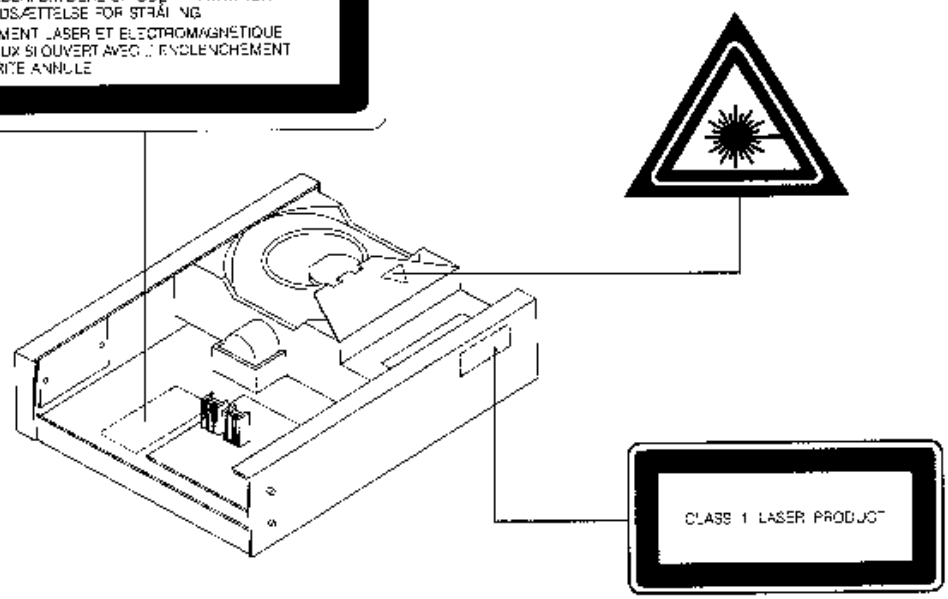
SERVICE MANUAL

NAD

SAFETY INFORMATION

CAUTION

CAUTION-	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM
VORSICHT	UNSICHTBARE LASERSTRAHLUNG TRITT AUS, WENN DECKEL GEÖFFNET UND WENN SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT IST NICHT DEM STRAHL AUSSETZEN!
VARNING-	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRR ÄR URKOPPLAD. STRÅLEN ÄR FARLIG.
ADVARSEL-	USYNLIG LASERSTRÅLNING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGÅ UDSÆTTELSE FOR STRÅLNING.
ATTENTION-	RAYONNEMENT LASER ET ELECTROMAGNETIQUE DANGEREUX SI OUVERT AVEC L'ENCLENCHEMENT DE SECURITE ANNULE



IMPORTANT NOTE: Before using the player you must remove the two red transit clamps that are fitted on the underside of the player. To remove the two transit clamps turn the player upside down and turn each clamp anticlockwise about quarter of a turn until it is free. The clamps can now be gently lifted out of the player. Retain the clamps for future use should you wish to transport the player. They can be refitted by reversing the removal procedure above.

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.
OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION.

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SPECIFICATIONS

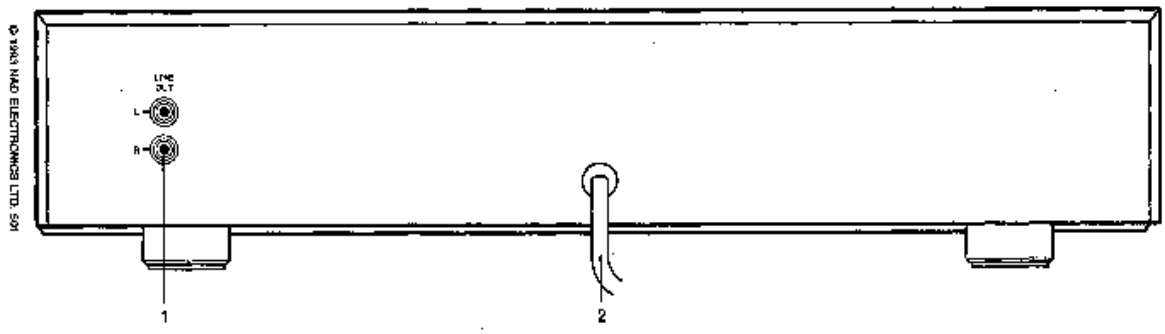
Disc capacity	One disc, 80mm or 120mm
Decoding	Bitstream converter
Laser pickup	Single beam
Mechanism	CDM4
Frequency Response	20Hz-20kHz-0.1/-0.5dB
THD (plus noise)	0.004% at 1kHz, Max. Rec. Level
Linearity	+ /-0.5dB; (0 to -90dB)
Signal/Noise Ratio	99dB A-weighted
Channel Separation	-90dB at 1kHz
	-88dB at 10kHz
Output Impedance	100 ohm
Output Level at 0dB	2.7 Vrms

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)	420 x 93 x 295mm
Net weight	6.0Kg
Shipping weight	7.1Kg

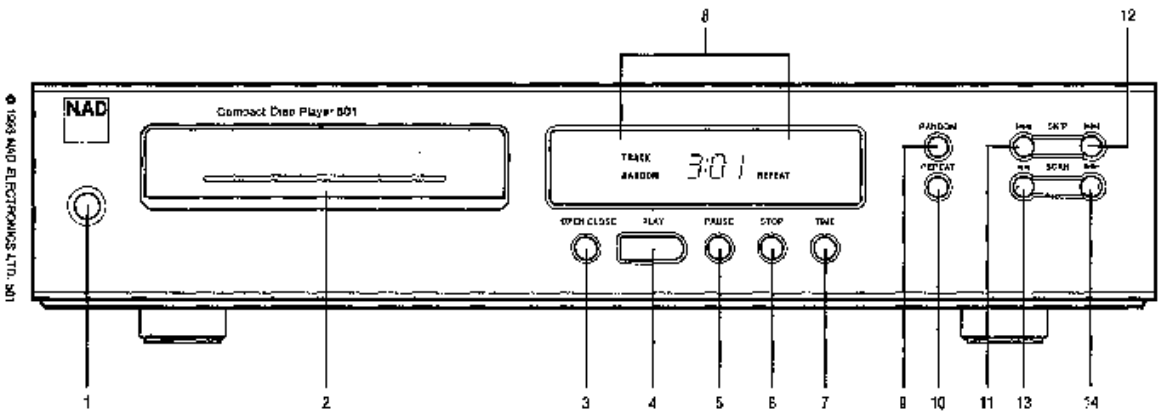
REAR PANEL / FRONT PANEL VIEW

REAR PANEL



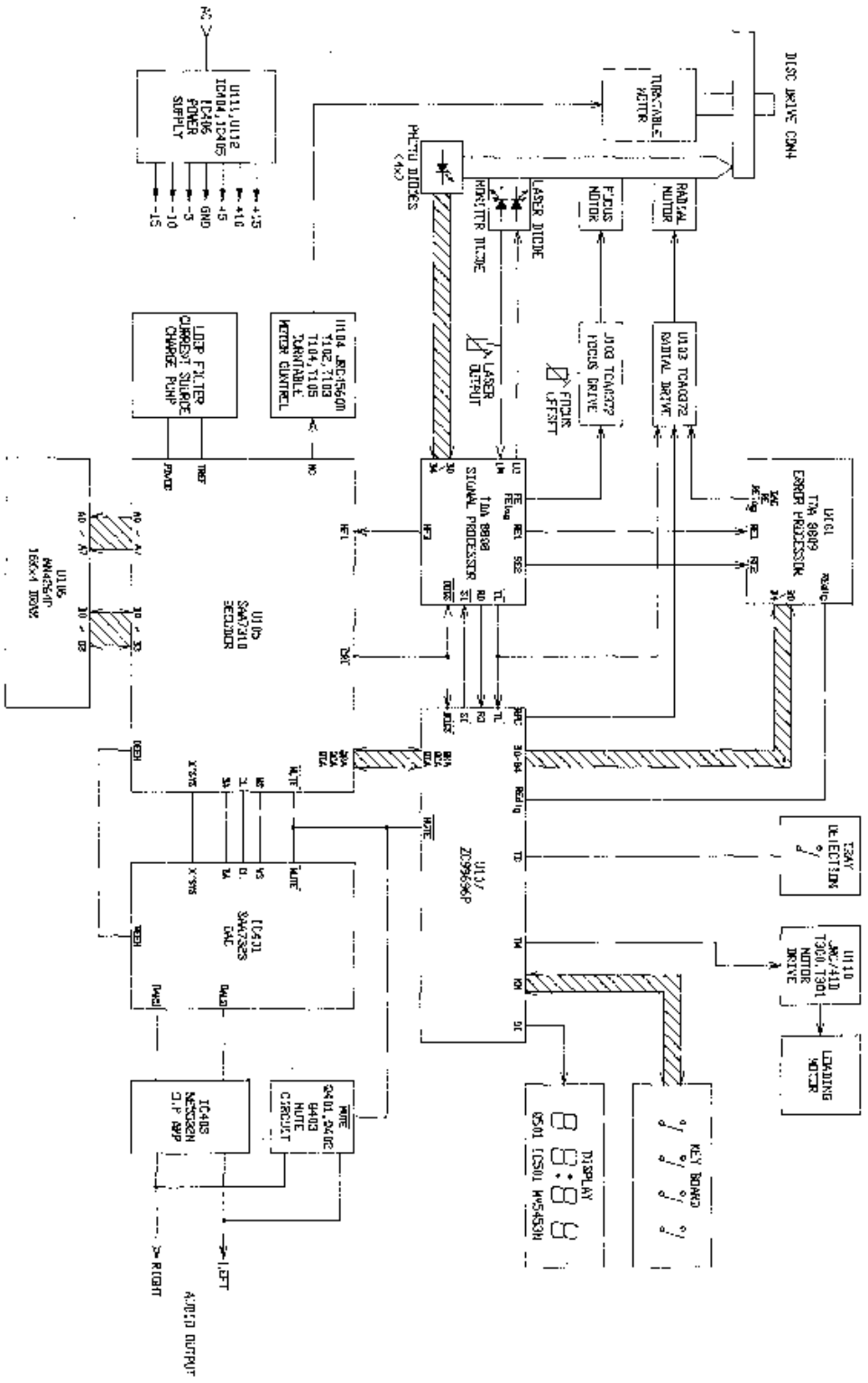
1. LINE OUT
2. AC LINE CORD

FRONT PANEL

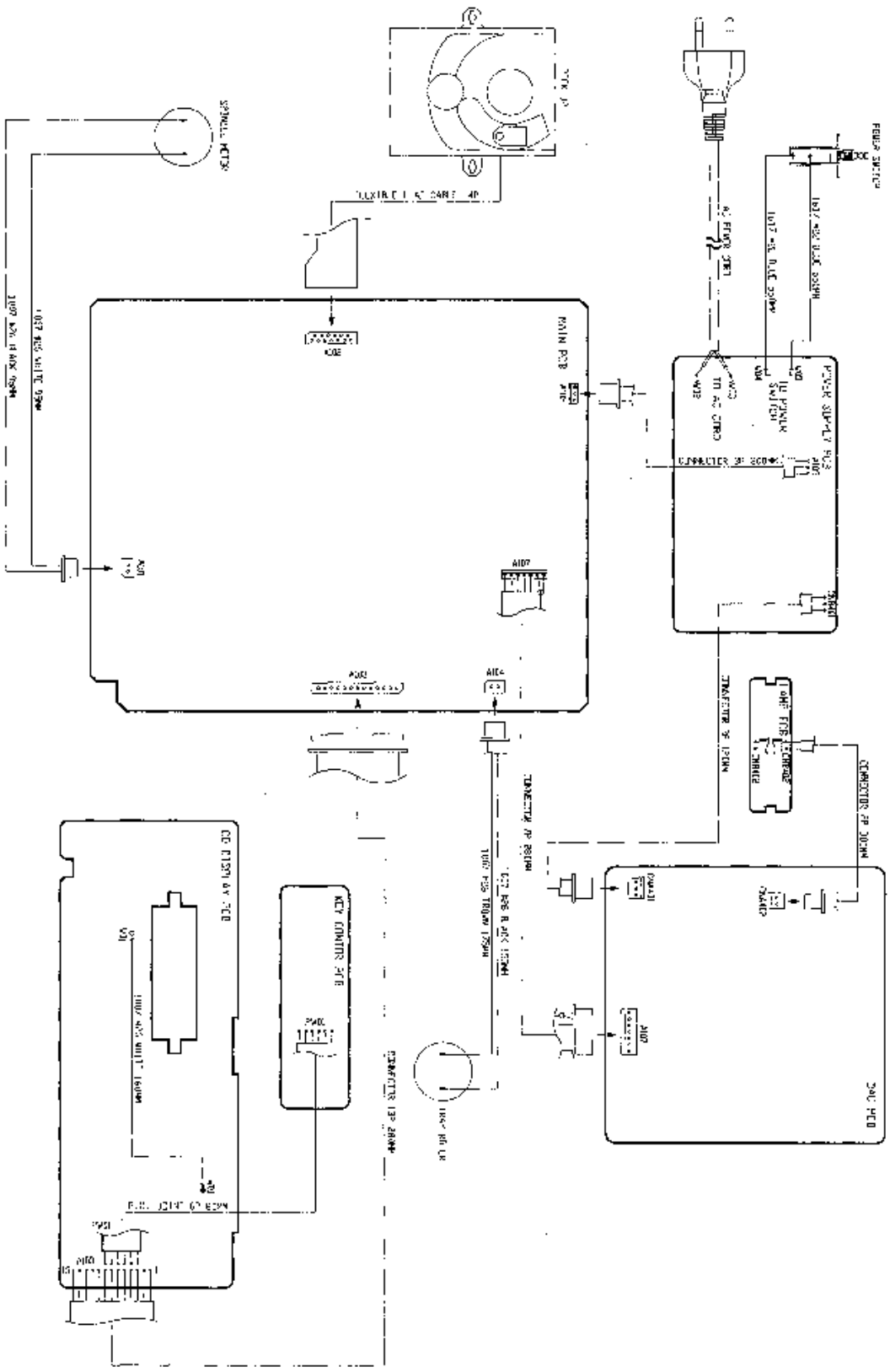


1. POWER ON/OFF
2. DISC DRAWER
3. OPEN CLOSE
4. PLAY
5. PAUSE
6. STOP
7. TIME
8. DISPLAY
9. RANDOM
10. REPEAT
11. SKIP Back (|<<)
12. SKIP Forward (>>|)
13. SCAN Back (<<)
14. SCAN Forward (>>)

BLOCK DIAGRAM



WIRING DIAGRAM



DISASSEMBLY INSTRUCTIONS

TOP COVER REMOVAL

1. Remove machine screws M 4.0x6.0 (① to ④) from the side panels.
   Remove tapping screw M 3.0x6.0 ⑤ from the back panel.
   Refer to figure No. 1.

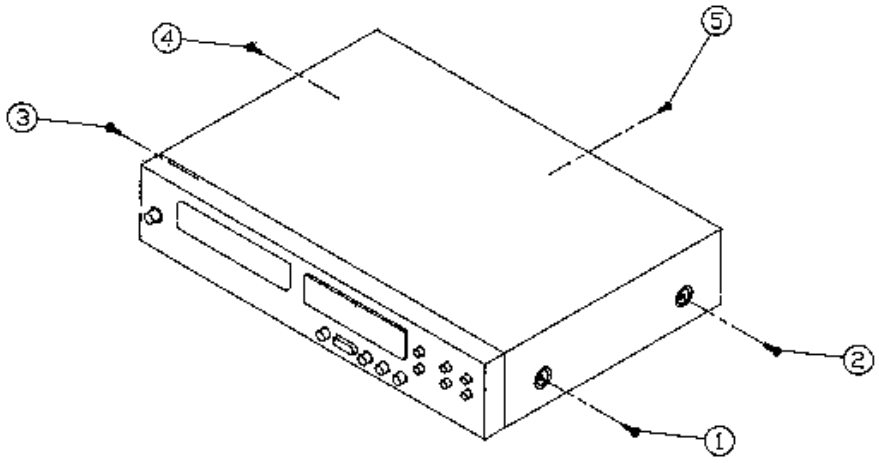


Fig. 1.

2. Pull both sides of the TOP COVER slightly outwards and tilt approx. 35°
   and then remove in the direction as indicated by pointer ⑦ in
   figure No. 2.

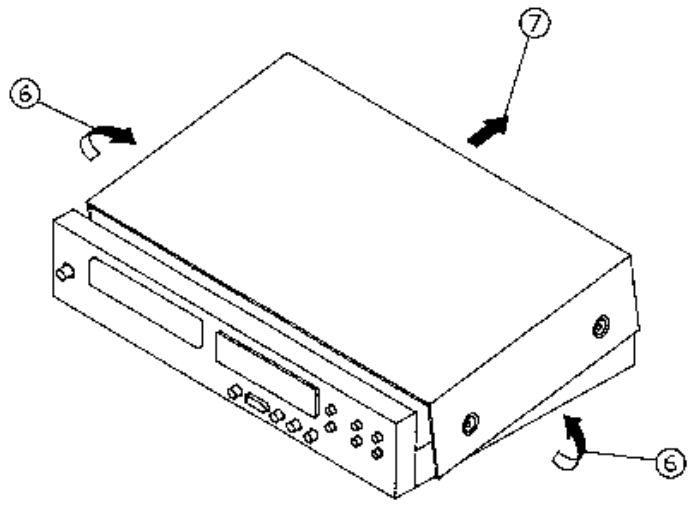
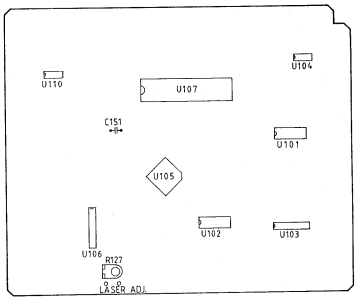
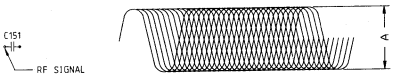


Fig. 2.

ADJUSTMENT POINTS DIAGRAM





$A = 1.0^{+0.2}_{-0.1} V_{P-P}$

LASER CURRENT ADJUSTMENT:

The integrated circuitry used in the CD PCB eliminates the need for most adjustments by incorporating self-adjusting circuitry; however, when parts in the servo circuitry or CD mechanism are replaced, a laser current adjustment should be performed. Follow steps below:

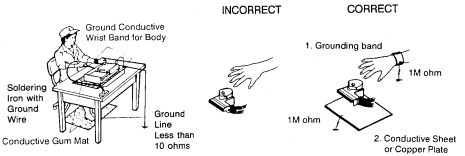
1. Insert the test disc (SONY Type 4, YEDS 18).
2. Make sure the power is OFF.
3. Connect a high-impedance voltmeter across the test points LASER ADJ.
4. Turn the power ON and press the Play button.
5. When track 1 starts playing, adjust R127 for 50mV +/-2mV.

IMPORTANT NOTES

INSTRUCTIONS FOR HANDLING OPTICAL-SYSTEM-BLOCK PICK-UP

Electrostatic breakdown of the laser diode in the optical-system-block may occur due to a potential difference caused by the electrostatic charge accumulated on clothing, body, etc. A ground must be provided as follows to prevent any electrostatic discharge during unpacking or repair work.

1. Body Ground.
Be sure to wear a grounding band (1M ohm) that is properly grounded to remove any static electricity from your clothing or body.
2. Ground for Work Bench
Be sure to place a conductive sheet (1M ohm) or copper plate with proper grounding on the work bench or other surface on which the pick-up is to be placed.
3. Because a static electricity charge on clothing does not discharge through the body grounding band, do not let clothing contact the pick-up unit.



NOTE: Laser diodes are so susceptible to damage from static electricity that even if a static discharge does not ruin the diode, it can shorten its life or cause it to work improperly.

PRECAUTIONS FOR CHECKING BEAM EMISSION OF LASER DIODE

The laser beam of this unit is focused on the reflecting surface of the objective lens in the optical system block. Therefore, keep your eyes at least 12 inches (30 cm) away from the objective lens when the laser diode is ON.

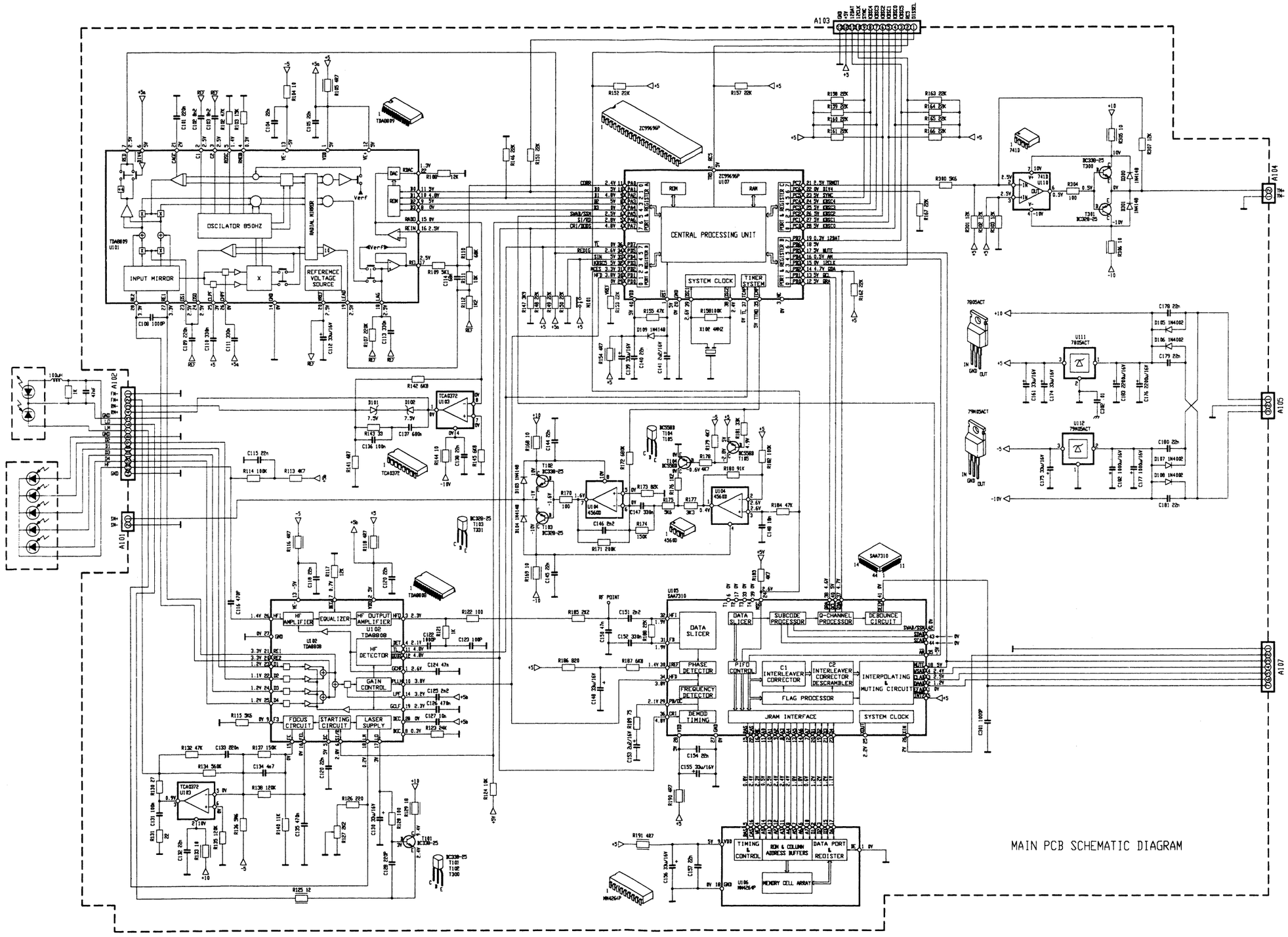
(Checking Method for Laser Diode and Focus Search Function.)

When the POWER switch is turned ON after the chucking arm is removed, observe the objective lens and confirm that the following operations are performed properly.

(The optical system block should be at the lead-in area position before chucking arm is removed)

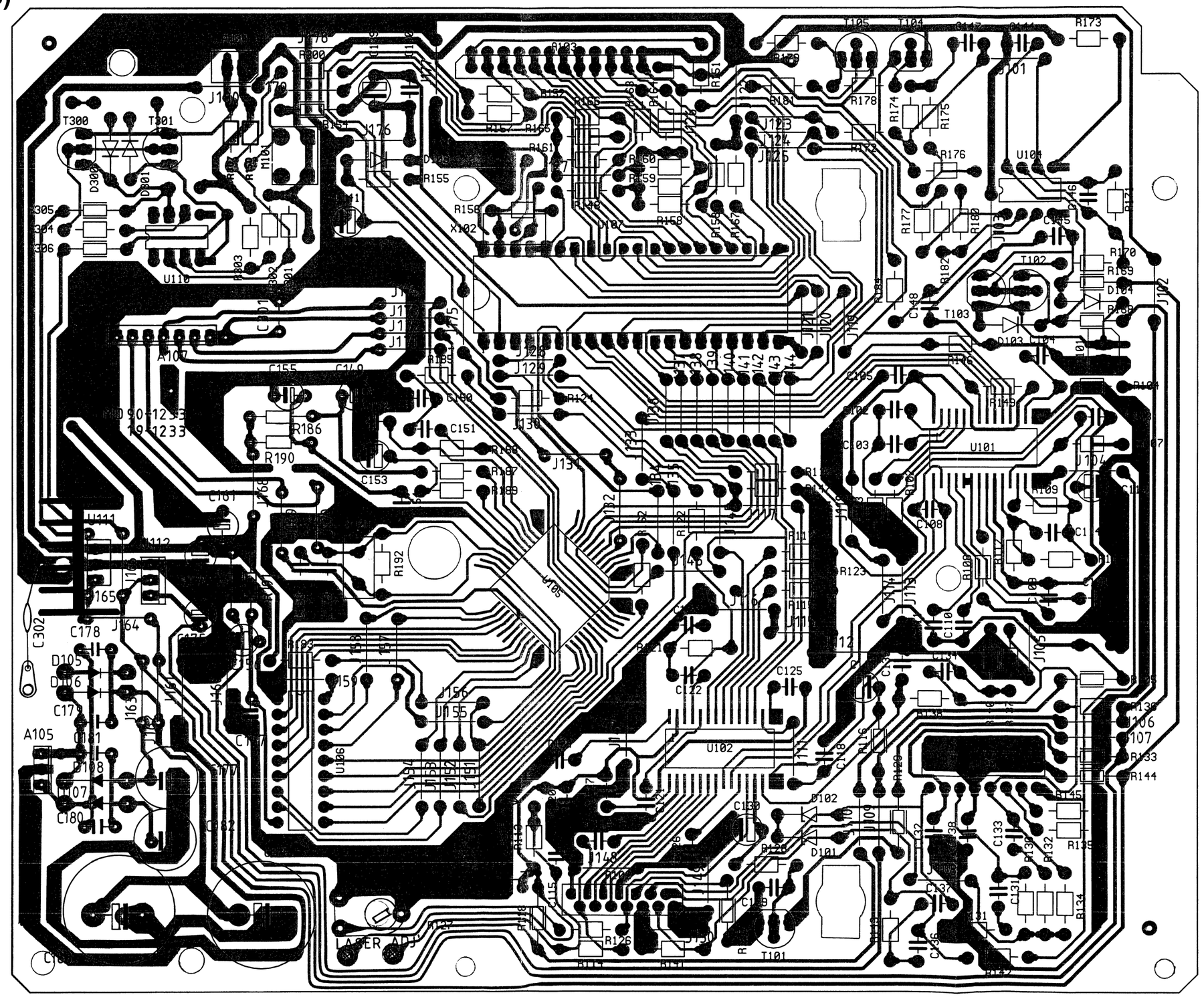
(1) The laser should be at the innermost position after the chucking arm is removed.
(2) The diffused light of the laser beam should be seen when the POWER switch is turned ON.
(3) Vertical (up and down) movement of the objective lens (several times) will take place.

SCHEMATIC DIAGRAM (MAIN PCB)



MAIN PCB SCHEMATIC DIAGRAM

PCB LAYOUT (MAIN PCB)


T300
T301
D301
D302
U110
A107
A105
U111
U112
U106
U102
U101
T101
T102
T103
D101
D102
D103
D104
D105
D106
D107
X102
LASER ADJ
R186
R190
R192
R300
C155
C151
C153
C161
C178
C179
C180
C181
C122
C125
C130
C133
C302
J105
J101
J102
J104
J106
J107
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J148
J156
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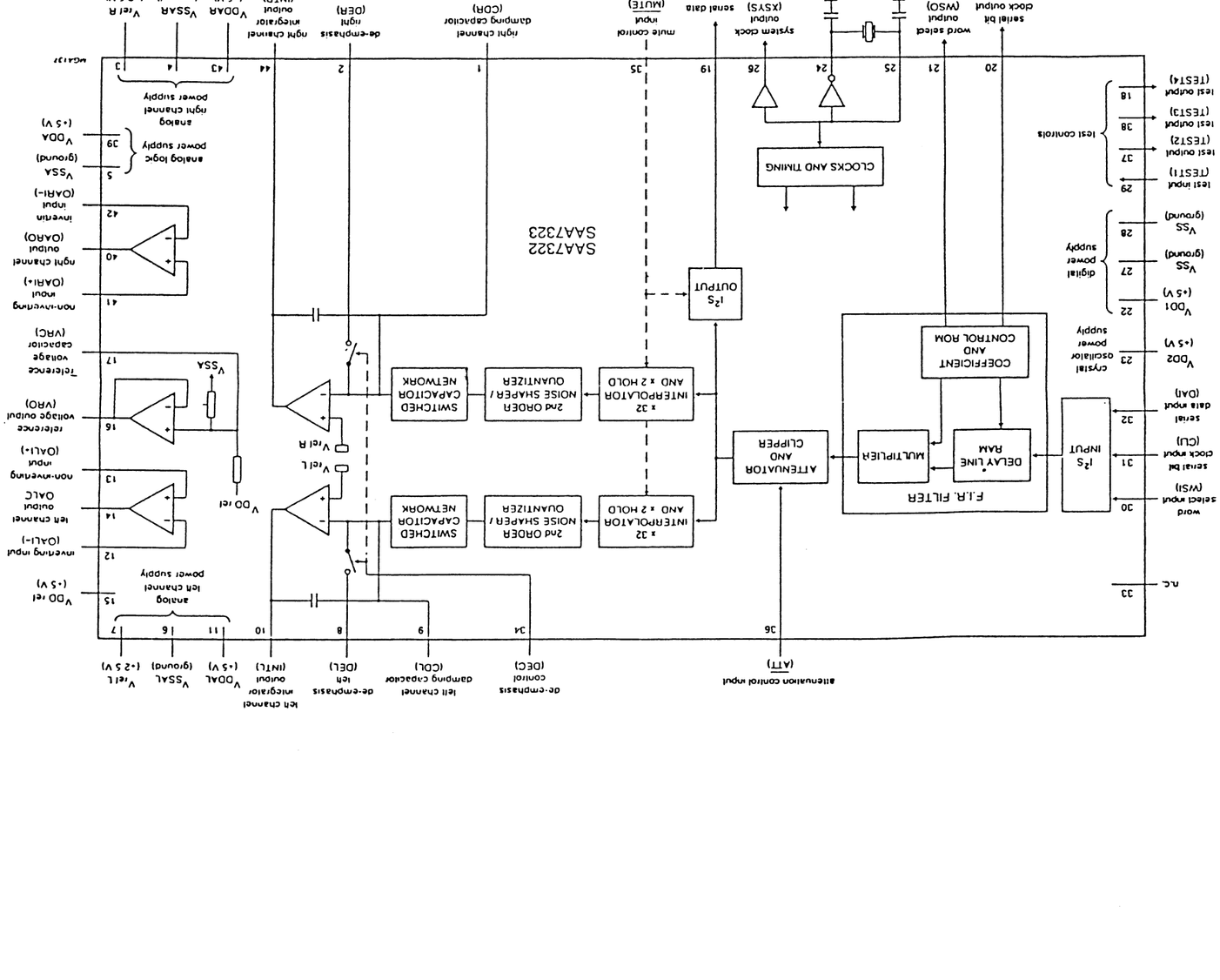
C221

IC BLOCK DIAGRAM

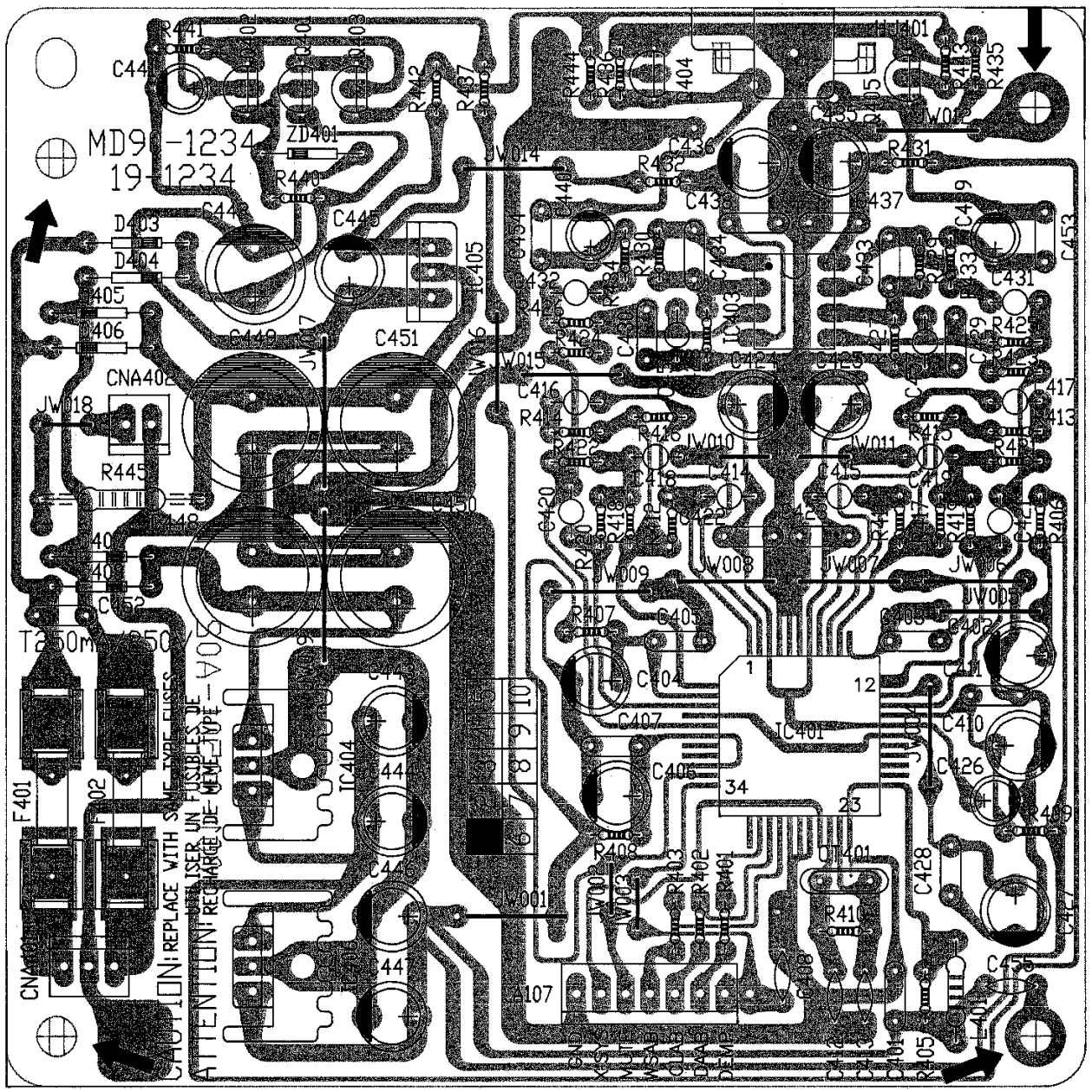


SCHEMATIC DIAGRAM (DAC PCB)

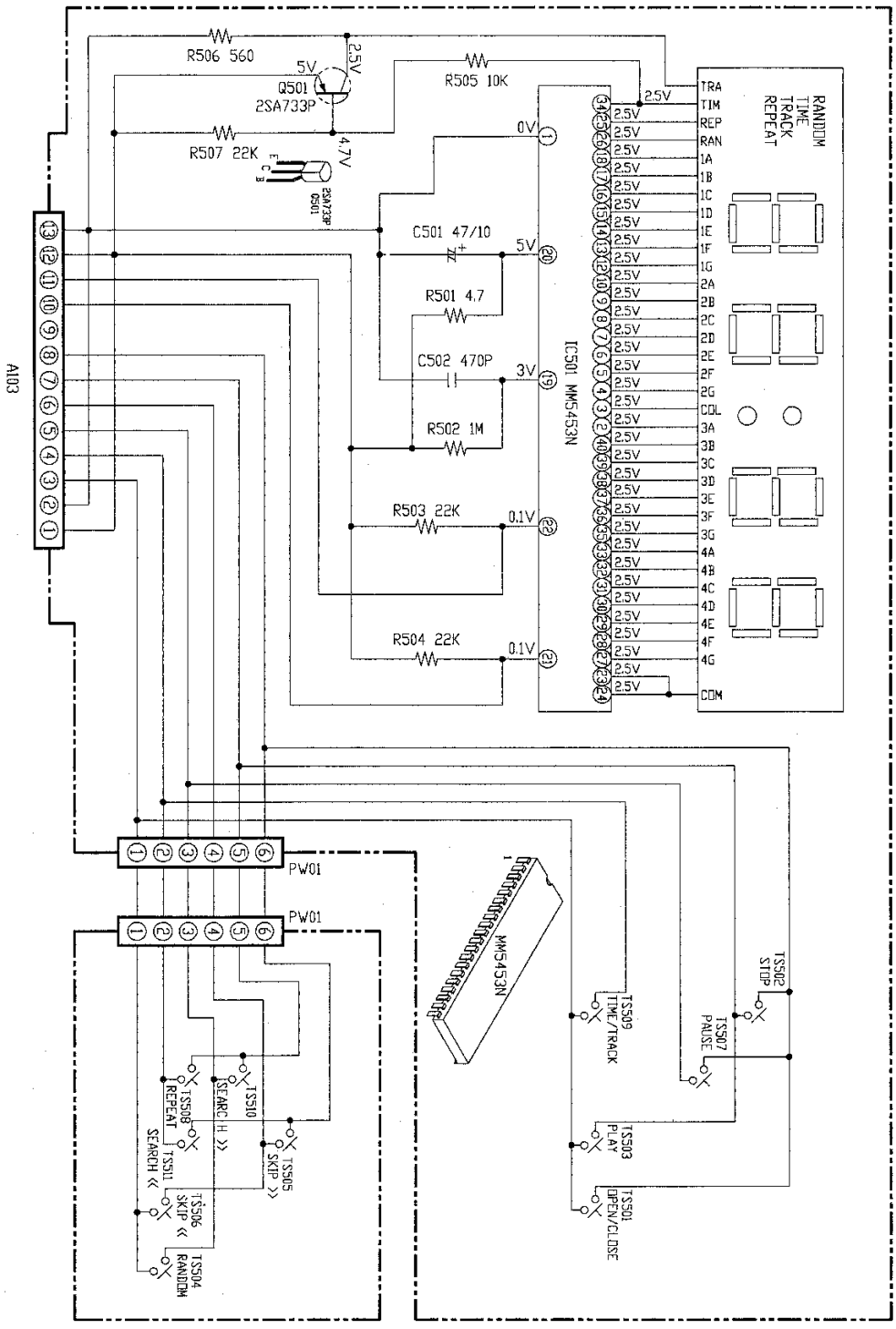
NOTE:
1. ALL RESISTANCES VALUES IN Ω. K=1000Ω M=1000KΩ.
2. THE VALTAGE OF RESISTORS IS 1/6V UNLESS OTHERWISE NOTED.
3. ALL CAPACITANCES VALUES ARE IN μF UNLESS OTHERWISE NOTED. P=μμF.
4. ⚠ SAFETY REGULATIONS COMPONENTS IN ACCORDANCE WITH PRESENT SAFETY REGULATIONS THESE COMPONENTS MUST ONLY BE REPLACED BY ORIGINAL PARTS.

DAC PCB SCHEMATIC DIAGRAM

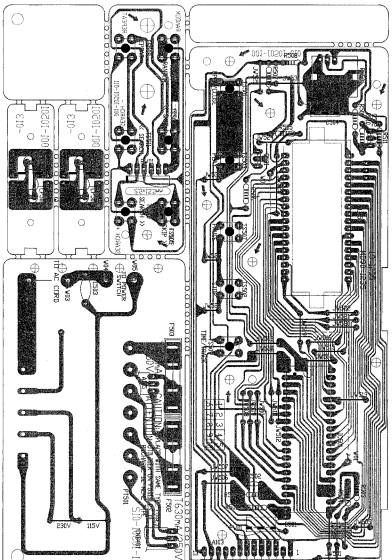
PCB LAYOUT (DAC PCB)



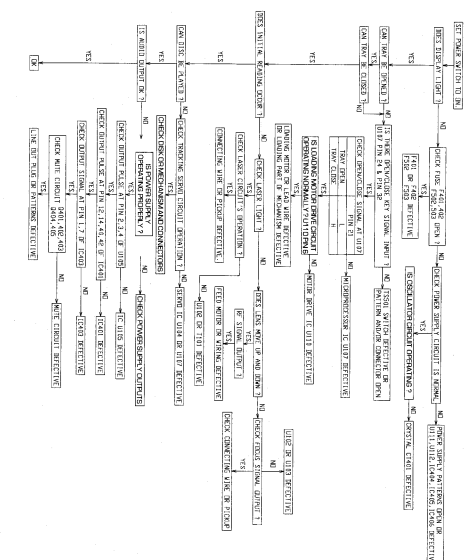
SCHEMATIC DIAGRAM (DISPLAY)



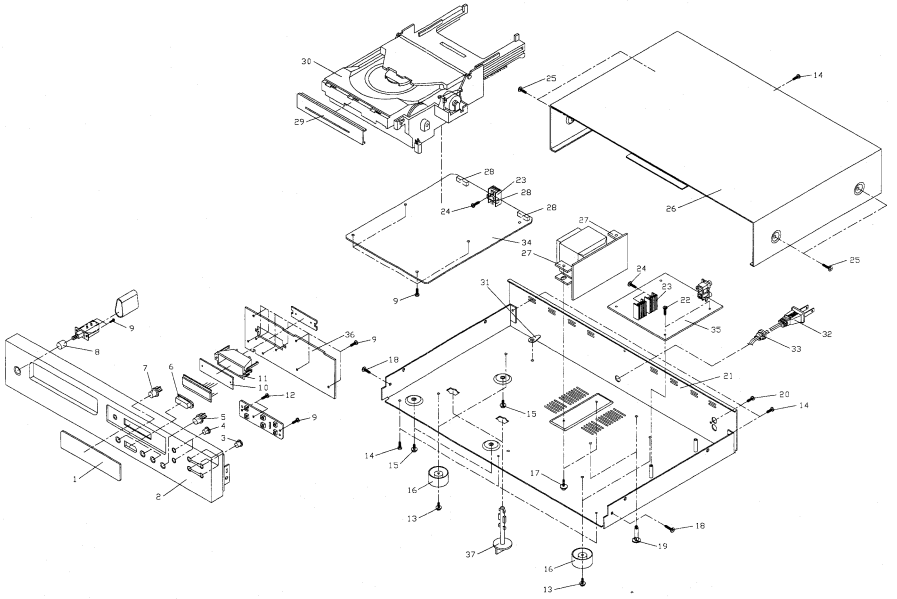
PCB LAYOUT (DISPLAY)



TROUBLE SHOOTING GUIDE



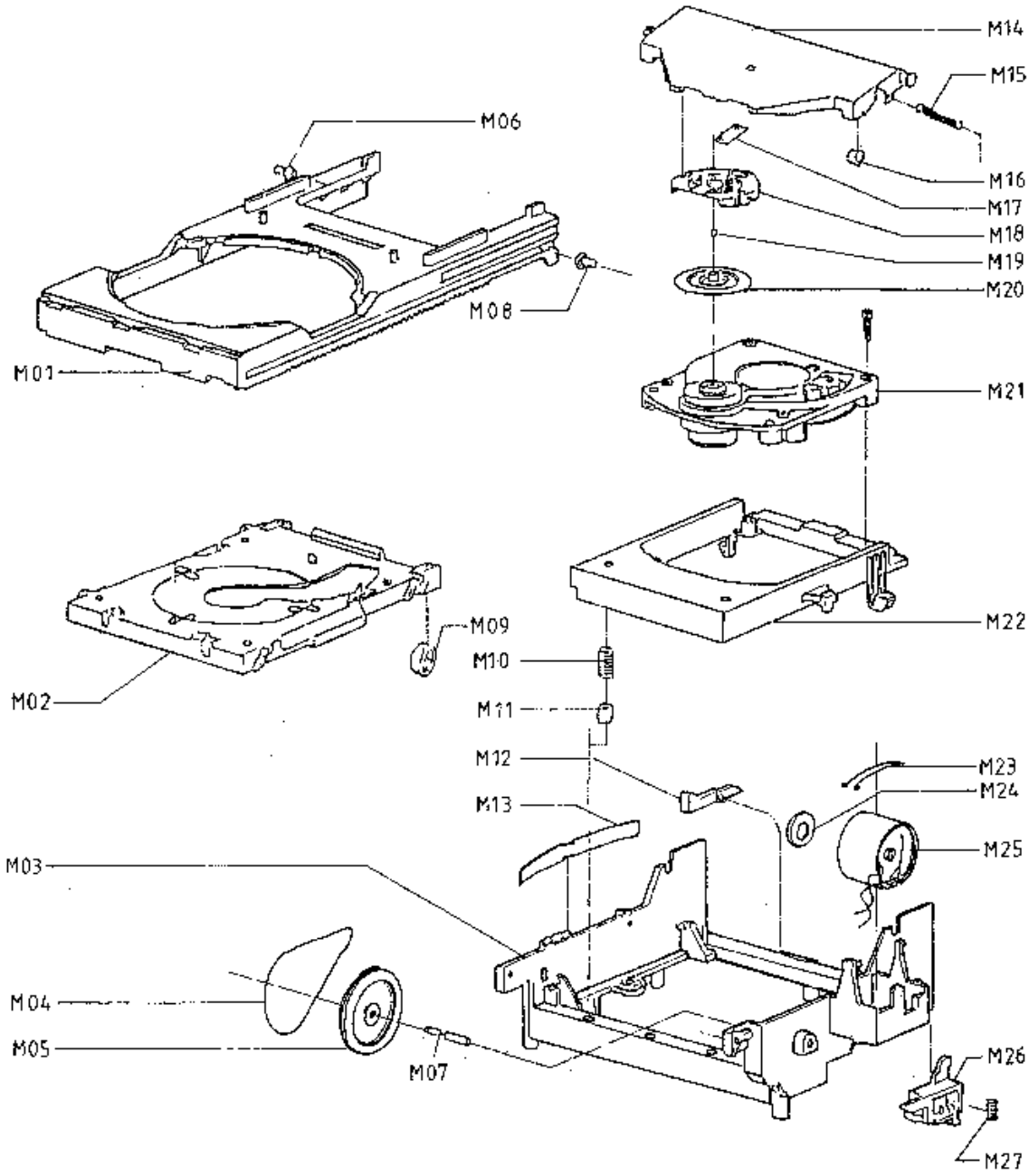
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	Q'TY
1	101-00501-001	DISPLAY WINDOW	1
2	104-00501-001	FRONT PANEL	1
3	102-00501-004	FUNCTION KNOB (B)	4
4	102-00501-005	FUNCTION KNOB	2
5	102-00501-006	FUNCTION KNOB (C)	1
6	102-00501-003	PLAY KNOB	1
7	102-00501-002	FUNCTION KNOB (A)	3
8	102-00501-001	POWER KNOB	1
9	130-03010-013	TAPPING SCREW PS 3#x10R	15
10	101-00501-002	FILTER PLATE	1
11	106-00501-001	LCD HOLDER	1
12	130-03008-024	TAPPING SCREW PS 3#x8R	2
13	128-03006-W14	TAPPING SCREW PS 3#x6R	4
14	128-03006-014	TAPPING SCREW PS 3#x6R	6
15	130-03010-W14	TAPPING SCREW PS 3#x10R	3
16	113-00501-001	FOOT	4
17	131-04014-W13	MACHINE SCREW PM 4#x14R/10#	2
18	128-03006-024	TAPPING SCREW PS 3#x6R	2
19	055-00501-001	PCB SUPPORT	2
20	130-03010-014	TAPPING SCREW PS 3#x10R	1
21	122-00501-001	BOTTOM CASE	1
22	131-03008-013	MACHINE SCREW PM 3#x8Rx0.5	2
23	111-00610-001	HEAT SINK	3
24	128-03006-014	TAPPING SCREW PM 3#x6R TYPE-3	3
25	149-00501-001	TAPPING SCREW PS 4#x6R TYPE-3	4
26	122-00501-002	TOP COVER	1
27	105-00405-008	TRANSFORMER BRACKET	2
28	112-00501-001	SPONGE	3
29	118-00501-001	CD DOOR	1
30	655-00501-001	CD MECHANISM	1
31	125-00030-001	LUG 3#	1
32*C,B1	043-04600-001	AC POWER CORD SP-021A (C,B1)	1
32*AH	043-00100-001	AC POWER CORD (AH)	1
33	055-07150-001	POWER CORD STOPPER SR-4N-4	1
34	610-00501-001	MAIN AMP PCB ASS'Y	1
35	613-00501-001	DAC PCB ASS'Y	1
36	612-00501-001	CD DISPLAY PCB ASS'Y	1
37	106-00501-008	TRANSPORTS LOCKING	2

MECHANISM EXPLODED VIEW



MECHANISM EXPLODED VIEW PARTS LIST

ITEM	PART NO	DESCRIPTION	Q'TY
M01	317 10005A	TRAY	1
M02	317 10003B	LIFT PLATE	1
M03	259 10002C	CHASSIS	1
M04	017 40002	BELT	1
M05	077 30005	GEAR WHEEL	1
M06	271 30004	GUIDE	2
M07	316 40005	SHAFT	1
M08	271 30003	GUIDE	2
M09	151 40001	ROLLER LIP	2
M10	172 40016	COMPRESSION SPRING	4
M11	078 40002	SUSPENSION GROMMET	4
M12	209 40001A	TUMBLER	1
M13	172 30015	FLAT SPRING	1
M14	300 10004C	LID	1
M15	172 40017	TENSION SPRING	2
M16	151 40002	ROLLER LID	2
M17	300 40005	PIVOT PLATE	1
M18	258 20004A	CENTRING RING	1
M19	013 40001	BALL	1
M20	258 30003	PRESSURE RING (CARRIER RING)	1
M21	480 32403	CDM4 MINI	1
M22	259 10003C	SUPPORT PIECE	1
M23	172 40014	SPRING	1
M24	139 40003A	PULLEY	1
M25	118 40001	LOADER MOTOR	1
M26	255 30003C	SWITCH BRACKET	1
M27	172 40013	COMPRESSION SPRING	1

PARTS LIST

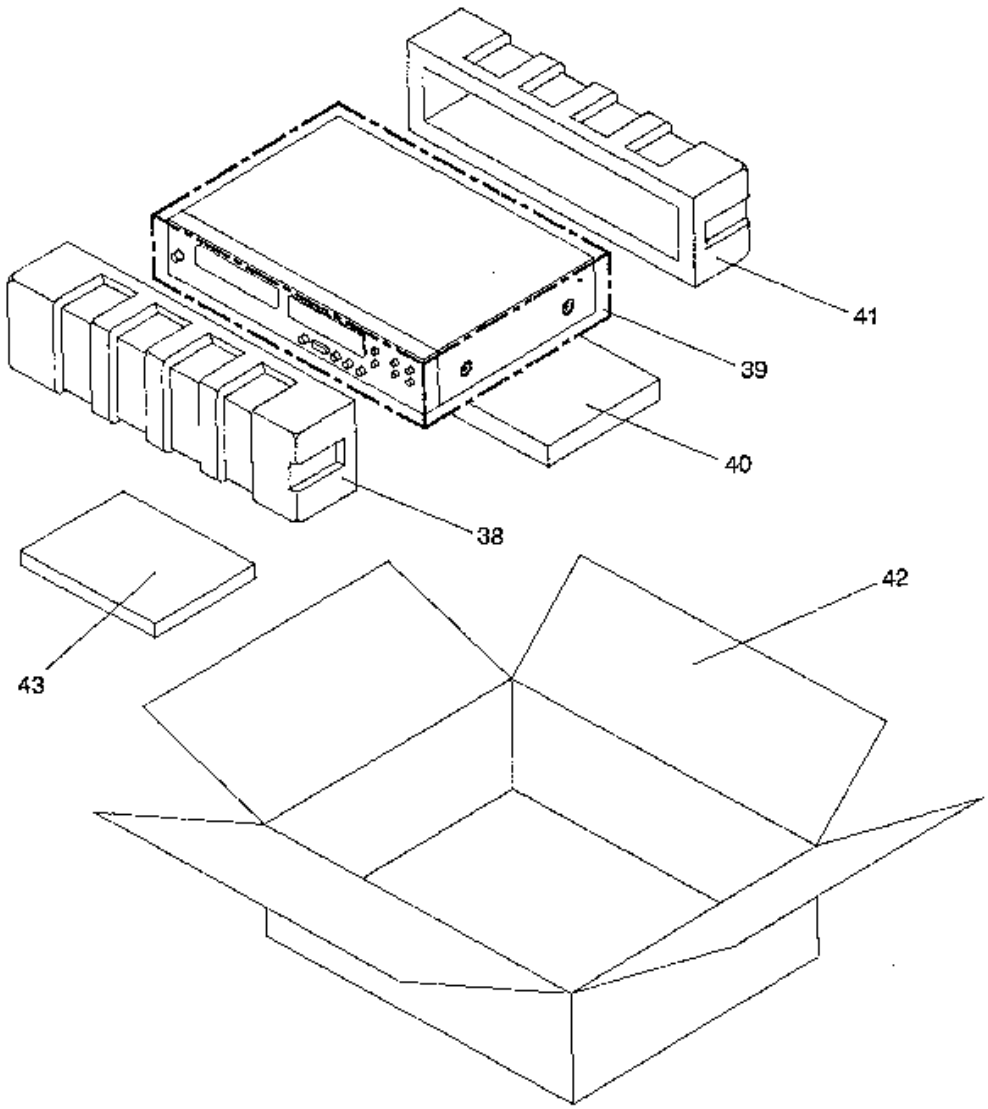
501 PARTS LIST

SYMBOL NO.	REF. NO.	PART NO.	DESCRIPTION	SPECIFICATION			Q'TY
CAPACITORS							
C101	014-22401-063	014-22401-063	CAP. METAL.	0.22uF	+/-5%	63V	1
C102,C103	014-82201-063	014-82201-063	CAP. METAL.	0.0082uF	+/-5%	63V	2
C108	014-10201-063	014-10201-063	CAP. METAL.	0.001uF	+/-5%	63V	1
C109	014-22401-063	014-22401-063	CAP. METAL.	0.22uF	+/-5%	63V	1
C110,C111	014-33301-063	014-33301-063	CAP. METAL.	0.033uF	+/-5%	63V	2
C112	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	1
C113	014-33401-063	014-33401-063	CAP. METAL.	0.33uF	+/-5%	63V	1
C114	014-68301-063	014-68301-063	CAP. METAL.	0.068uF	+/-5%	63V	1
C117	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	1
C121	014-22401-063	014-22401-063	CAP. METAL.	0.22uF	+/-5%	63V	1
C122	014-10201-063	014-10201-063	CAP. METAL.	0.001uF	+/-5%	63V	1
C124	014-47301-063	014-47301-063	CAP. METAL.	0.047uF	+/-5%	63V	1
C125	014-22201-063	014-22201-063	CAP. METAL.	0.0022uF	+/-5%	63V	1
C126	014-47401-063	014-47401-063	CAP. METAL.	0.47uF	+/-5%	63V	1
C127	014-10301-063	014-10301-063	CAP. METAL.	0.01uF	+/-5%	63V	1
C130	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	1
C131	014-10401-063	014-10401-063	CAP. METAL.	0.1uF	+/-5%	63V	1
C133	014-22401-063	014-22401-063	CAP. METAL.	0.22uF	+/-5%	63V	1
C134	014-47201-063	014-47201-063	CAP. METAL.	0.0047uF	+/-5%	63V	1
C135	014-47401-063	014-47401-063	CAP. METAL.	0.47uF	+/-5%	63V	1
C136	014-10401-063	014-10401-063	CAP. METAL.	0.1uF	+/-5%	63V	1
C137	014-68401-063	014-68401-063	CAP. METAL.	0.68uF	+/-5%	63V	1
C139	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	1
C141	089-22502-016	089-22502-016	CAP. EL	2.2uF	+/-10%	16V	1
C146	014-22201-063	014-22201-063	CAP. METAL.	0.0022uF	+/-5%	63V	1
C147	014-33401-063	014-33401-063	CAP. METAL.	0.33uF	+/-5%	63V	1
C148	014-18301-063	014-18301-063	CAP. METAL.	0.018uF	+/-5%	63V	1
C149	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	1
C151	014-22201-063	014-22201-063	CAP. METAL.	0.0022uF	+/-5%	63V	1
C152	014-33401-063	014-33401-063	CAP. METAL.	0.33uF	+/-5%	63V	1
C153	089-22502-016	089-22502-016	CAP. EL	2.2uF	+/-10%	16V	1
C155,C156	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	2
C161	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	1
C174,C175	089-33602-016	089-33602-016	CAP. EL	33uF	+/-10%	16V	2
C176	008-22802-016	008-22802-016	CAP. EL	2200uF	+/-10%	16V	1
C177	008-10802-016	008-10802-016	CAP. EL	10000uF	+/-10%	16V	1
C182	008-10802-016	008-10802-016	CAP. EL	10000uF	+/-10%	16V	1
C183	008-22802-016	008-22802-016	CAP. EL	2200uF	+/-10%	16V	1
C301	014-10201-063	014-10201-063	CAP. METAL.	0.001uF	+/-5%	63V	1
C401	088-47301-050	088-47301-050	CAP. MYLAR	0.047uF	+/-5%	50V	1
C402	089-22702-010	089-22702-010	CAP. EL.	220uF	+/-10%	10V	1
C403	061-47303-050	061-47303-050	CAP. M.C.	0.047uF	+/-5%	50V	1
C404	089-22702-010	089-22702-010	CAP. EL.	220uF	+/-10%	10V	1
C405	061-47303-050	061-47303-050	CAP. M.C.	0.047uF	+/-5%	50V	1
C406	089-22702-010	089-22702-010	CAP. EL.	220uF	+/-10%	10V	1
C407	061-47303-050	061-47303-050	CAP. PDLY.	2200pF	+/-5%	50V	1
C410	089-22702-010	089-22702-010	CAP. EL.	220uF	+/-10%	10V	1
C411	061-47303-050	061-47303-050	CAP. M.C.	0.047uF	+/-5%	50V	1
C414,C415	011-68101-050	011-68101-050	CAP. PS	680pF	+/-5%	50V	2
C416,C417	011-15201-050	011-15201-050	CAP. PS	1500pF	+/-5%	50V	2
C418,C419	011-18201-050	011-18201-050	CAP. PS	1800pF	+/-5%	50V	2
C420	011-12101-050	011-12101-050	CAP. PS	120pF	+/-5%	50V	1
C421	011-12101-050	011-12101-050	CAP. PS	120pF	+/-5%	50V	1
C422,C423	061-47303-050	061-47303-050	CAP. M.C.	0.047uF	+/-5%	50V	2
C424,C425	089-22702-010	089-22702-010	CAP. EL.	220uF	+/-10%	10V	2
C426,C427	089-10702-010	089-10702-010	CAP. EL.	100uF	+/-10%	10V	2
C428	061-47303-050	061-47303-050	CAP. M.C.	0.047uF	+/-5%	50V	1
C429,C430	080-10201-050	080-10201-050	CAP. MYLAR	0.001uF	+/-5%	50V	2
C431,C432	011-47101-050	011-47101-050	CAP. PS	470pF	+/-5%	50V	2
C435,C436	008-22702-016	008-22702-016	CAP. EL.	220uF	+/-10%	16K	2
C437,C438	088-47301-050	088-47301-050	CAP. MYLAR	0.047uF	+/-5%	50V	2
C439,C440	089-22602-050	089-22602-050	CAP. EL.	22uF	+/-5%	50V	2
C441	089-47402-050	089-47402-050	CAP. EL.	0.47uF	+/-10%	50V	1
C442	010-47702-025	010-47702-025	CAP. EL. AL VENT	470uF	+/-10%	25V	1
C443-C445	008-22702-016	008-22702-016	CAP. EL.	220uF	+/-10%	16K	3
C446,C447	089-22702-010	089-22702-010	CAP. EL.	220uF	+/-10%	10V	2
C448-C451	010-10802-025	010-10802-025	CAP. EL. AL VENT	1000uF	+/-10%	25V	4
C452	087-22302-100	087-22302-100	CAP. MYLAR	0.022uF	KY	100V	1
C453,C454	079-10401-100	079-10401-100	CAP. MPP TYPE	0.1uF	KY	100V	2
C302,C455	004-10303-050	004-10303-050	CAP. CER.	0.01uF	+20-80%	50V	2
C456,C457	001-10101-050	001-10101-050	CAP. PS	100pF	+/-5%	50V	2
C501	008-47602-010	008-47602-010	CAP. EL.	47uF	+/-10%	10V	1
DIODES							
D101,D102	091-00075-005	091-00075-005	ZENER DIODE	7.5V 500mW			2
D103,D104	1N4148	091-04141-01N	DIODE	1N4148			2
D105-D108	1N4002	091-04002-01N	DIODE	1N4002			4
D109	1N4148	091-04141-01N	DIODE	1N4148			1
D300,D301	1N4148	091-04141-01N	DIODE	1N4148			2
D403-D408	1N4002	091-04002-01N	DIODE	1N4002			6
ZD401	091-00051-005	091-00051-005	ZENER DIODE	5.1V 500mW			2
FUSES							
F401,F402	025-00501-004	025-00501-004	FUSE	250V/0.25A	5x20MM		2
F502,F503	025-01600-009	025-01600-009	FUSE	0.63A/250V	5x20MM		2

501 PARTS LIST

SYMBOL NO.	REF. NO.	PART NO.	DESCRIPTION	SPECIFICATION			Q'TY
ICS							
U101	TDA8809T	020-08809-TDA	IC.	TDA8809T			1
U102	TDA8808T	020-08808-TDA	IC.	TDA8808T			1
U103	TCA0372/DP2	020-00372-TCA	IC.	TCA0372/DP2			1
U104	BA4560	020-04560-OBA	IC.	BA4560	JRC.		1
U105	SAA7310GP	020-07310-SAA	IC.	SAA7310GP			1
U106	MN4264P-15	020-04264-OMN	IC.	MN4264P-15			1
U107	ZC99696P	020-99696-DZC	IC.	ZC99696P			1
U110	NJM741D	020-00741-NJM	IC.	NJM741D			1
U111,IC406	UPC7805H	020-07805-UPC	VOLTAGE REG IC.	UPC7805H	+5V/1A		2
U112	NJM79M05	020-79M05-NJM	VOLTAGE REG IC.	NJM79M05	-5V/0.5A		1
IC401	SAA7323GP	020-07323-SAA	IC.	SAA7323GP			1
IC403	NE5532N	020-05532-ONE	IC.	NE5532N			2
IC404	UPC78M15	020-78M15-UPC	VOLTAGE REG IC.	UPC78M15	+15V/0.5A		1
IC405	NJM79M15	020-79M15-NJM	VOLTAGE REG IC.	NJM79M15	-15V/0.5A		1
IC501	MM5453	020-05453-OMM	IC.	MM5453			1
TRANSISTORS							
T101,T102	BC338-25	090-00338-025	TRANSISTOR	BC338-25			2
T103	BC328-25	090-00328-025	TRANSISTOR	BC328-25			1
T104,T105	BC558-B	090-00558-002	TRANSISTOR	BC558-B			2
T301	BC328-25	090-00328-025	TRANSISTOR	BC328-25			1
T300	BC338-25	090-00338-025	TRANSISTOR	BC338-25			1
Q401,Q402	BC546B	021-00546-002	TRANSISTOR	BC546B			2
Q403	BC556BC	021-00556-002	TRANSISTOR	BC556BC			1
Q404,Q405	BC546B	021-00546-002	TRANSISTOR	BC546B			2
Q501	2SA733P	021-00733-016	TRANSISTOR	2SA733P			1
RESISTORS							
R104	095-52101-003	095-52101-003	RES. FUSE	10J	+/-5%	1/3W	1
R105,R116,R118	095-52470-003	095-52470-003	RES. FUSE	4.7J	+/-5%	1/3W	3
R125	095-52121-003	095-52121-003	RES. FUSE	12J	+/-5%	1/3W	1
R127	017-20308-301	017-20308-301	RES. SEMI-FIX	2K	B# 3P		1
R129	095-52181-003	095-52181-003	RES. FUSE	18J	+/-5%	1/3W	1
R133	095-52101-003	095-52101-003	RES. FUSE	10J	+/-5%	1/3W	1
R141	095-52470-003	095-52470-003	RES. FUSE	4.7J	+/-5%	1/3W	1
R144	095-52101-003	095-52101-003	RES. FUSE	10J	+/-5%	1/3W	1
R154	095-52470-003	095-52470-003	RES. FUSE	4.7KJ	+/-5%	1/3W	1
R168,R169	095-52101-003	095-52101-003	RES. FUSE	10J	+/-5%	1/3W	2
R190,R191	095-52470-003	095-52470-003	RES. FUSE	4.7J	+/-5%	1/3W	2
R305,R306	095-52101-003	095-52101-003	RES. FUSE	10J	+/-5%	1/3W	2
R423-R426	080-52653-F08	080-52653-F08	RES. METAL FILM	6.49KJ	+/-2%	1/8W	4
R445	080-00561-010	080-00561-010	RES. METAL OXIDE	56J	+/-5%	1W	1
SWITCHES							
M101	023-00425-001	023-00425-001	TACT SWITCH	SKHHAB2510			1
TS01-TS11	023-00425-001	023-00425-001	TACT SWITCH	SKHHAB2510	TS01-11		11
PS401	023-07150-004	023-07150-004	POWER SWITCH	SDL81P	1017U-EP		1
OTHERS							
CT401	035-82896-011	035-82896-011	CRYSTAL	11.2896MHZ	HC-49/U		1
HJ401	027-02602-002	027-02602-002	RCA JACK	RJ-1020-010			1
L401	019-00210-003	019-00210-003	CHOKE COIL	4.7uH	+/-10%		1
LC501	025-00501-001	025-00501-001	LCD DISPLAY	UTN-H065ENV			1
LP501,LP502	025-00501-003	025-00501-003	LAMP	65mA/16V	4.75#		2
PT501	048-00501-001	048-00501-001	TRANSFORMER	EI-57			1
X102	016-00004-TDK	016-00004-TDK	CERAMIC FILTER	TDK4	OMC3		1

PACKING DIAGRAM



ITEM	PARTS NO.	DESCRIPTION	Q'TY
38	137-00501-002	POLYFOAM F	1
39	138-00501-001	PE BAG	1
40	137-00501-003	POLYFOAM A	1
41	137-00501-001	POLYFOAM R	1
42	141-00501-001	CARTON	1
43	134-00501-001	INSTRUCTION MANUAL	1

NOTES:

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SERVICE MANUAL

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COMPACT DISC PLAYER

NAD ELECTRONICS LTD
LONDON

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